Docket No. ECB-0004 Serial No. 09/676,875

- 2 -

## **LISTING OF CLAIMS**

Please cancel claim 12 without prejudice and amend claims 1 and 7 as shown herewith.

The status of all claims is listed herewith.

- levels in a previously hydrodesulfurized mercaptan sulfur containing an olefinic naphtha feedstream comprising the steps of (1) passing said mercaptan sulfur containing the olefinic naphtha feedstream to a hydrodesulfurization zone under hydrodesulfurization conditions to produce a mercaptan sulfur containing olefinic naphtha feedtream containing less than 30 wppm of non-mercaptan sulfur, and (2) passing the product from step (1) over a fixed bed catalyst in a three phase, gas, liquid, solid, system in the presence of a stripping gas, for a time and at a temperature and pressure sufficient to decompose at least a portion of said mercaptans to produce olefins, H<sub>2</sub>S as an off gas, and a hydrocarbon product stream having decreased amounts of mercaptan sulfur from said H<sub>2</sub>S and said stripping gas and wherein when said stripping gas is a gas stream comprising hydrogen, said fixed catalyst bed comprises a non-reducible metal oxide, and wherein when said stripping gas is an inert gas, said fixed bed catalyst comprises a Group VIIB metal promoted Group VIB catalyst.
- 2. (ORIGINAL) The method of claim 1 wherein said inert gas is selected from helium, nitrogen, argon, methane, natural gas, light ends and mixtures thereof.
- 3. (ORIGINAL) The method of claim 1 wherein said non-reducible metal oxide catalyst is selected from alumina, silica-alumina, magnesium oxide, and mixtures thereof and said Group VIIIB promoted Group VIB catalyst is selected from the group consisting of cobalt, and nickel promoted molybdenum catalysts.

Docket No. ECB-0004 Serial No. 09/676,875

04/24/2003 14:29

- 3 -

- 4. (PREVIOUSLY AMENDED) The method of claim 2 wherein when said stripping gas is a gas stream comprising hydrogen and said catalyst is a Group VIIIB promoted Group VIB catalyst, said stripping gas comprises no more than 1/2 mole % hydrogen sulfide and no more than 50 mole % hydrogen.
  - 5. (CANCELLED)
  - 6. (CANCELLED)
- 7. (CURRENTLY AMENDED) The method of claim 6 1 wherein said hydrodesulfurization step is a selective hydrodesulfurization step wherein sulfur is removed without substantially saturating olefins and without substantially changing the octane number.
  - 8. (CANCELLED)
- 9. (ORIGINAL) The method of claim 1 wherein said three phase system is a countercurrent system.
- 10. (ORIGINAL) The method of claim 1 wherein said three phase system is a concurrent system.
- 11. (ORIGINAL) The method of claim 3 wherein said catalysts are sulfided catalysts.
  - 12. (CURRENTLY CANCELLED)

Docket No. ECB-0004 Serial No. 09/676,875

-4-

- 13. (PREVIOUSLY AMENDED) The method of claim 1 wherein said mercaptan sulfur containing olefinic naphtha feedstream contains less than 30 ppm of non-mercaptan sulfur and greater than 30 ppm of mercaptan sulfur.
  - 14. (CANCELLED).